

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Anthony C. Spearman et al. **DATE MAILED:** April 1, 2003
SERIAL NO.: 09/660,709 **DOCKET NO.:** 000102.0001
FILED: September 13, 2000 **ART GROUP:** 2663
FOR: WIRELESS PROVISIONG DEVICE **EXAMINER:** T. Nguyen

I hereby certify that this correspondence is being transmitted, via facsimile, to the US Patent and Trademark Office, on **August 18, 2003**, addressed to Technology Center 2600, Before Final Facsimile No.: 703.872.9314.

Tony D. Alexander

(Name of Applicant, Assignee, or Registered Representative)


Tony D. Alexander

August 18, 2003

(Date of Signature)

AMENDMENT AND RESPONSE

Dear Sir:

A Non-Final Office Action was mailed on **April 1, 2003**, in the above-referenced case. The period for response to the Office Action was set to expire on July 1, 2003. With the granting of the accompanying Petition, the period for response will be extended to expire on **September 1, 2003**, therefore, this response is timely filed.

The U.S. Patent & Trademark Office is authorized to charge any deficiency or to credit any overpayment for any fees required for this filing to Deposit Account No.50-1949. For that purpose, duplicates of page 1 and the signature page are enclosed

In response to the above-referenced Office Action, please amend the application in the claims as follows (support for the following claim amendments is found in the application specification at, e.g., page 3 line 18 through page 5 line 13; page 6 lines 2-18; page 19 line 13 through page 20 line 2; page 20 lines 3-16; page 20 line 19 through page 21 line 14; page 23 lines 11-23; and page 26 lines 3-13):

1 1. (Previously Amended): A wireless provisioning device for use in
2 public domain networks wherein the wireless provisioning device is accessible by
3 a user of mobile computing devices, comprising:
4 a chassis;
5 at least one network card;
6 at least one wireless card;
7 at least one processor;
8 an operating system, the operating system operably configured in
9 the chassis to control the at least one network card, the at least one
10 wireless card and the at least one processor, which are operatively
11 coupled with the chassis;
12 a packet-switched interface capable of receiving a multiplicity of
13 inbound framed packet-data to provide inbound packets and
14 transmitting a multiplicity of outbound framed packet-data comprising
15 outbound packets;
16 a channeling controller, coupled to the packet-switched interface
17 that channels the inbound packets based on the inbound address
18 information and constructs the outbound packets and channels the
19 outbound packets with the outbound address information, the
20 channeling controller capable of being effectively connected to at least
21 one network via the operating system; and
22 an authenticator in operative communication with the operating
23 system to allow authentication at the wireless provisioning device;
24 whereby the user of a mobile computing device connects to the
25 wireless provisioning device without having to first access the Internet.

1 2. (Original): The wireless provisioning device of claim 1, wherein the
2 channeling controller routes the outbound packets.

1 3. (Original): The wireless provisioning device of claim 2, wherein the
2 channeling controller routes the outbound packets.

1 4. (Original): The wireless provisioning device of claim 1, wherein the
2 channeling controller bridges the inbound packets.

1 5. (Original): The wireless provisioning device of claim 4, wherein the
2 channeling controller bridges the outbound packets.


1 6. (Original): The wireless provisioning device of claim 1, wherein the
2 operating system of the wireless provisioning device is an open source UNIX
3 based system.

1 7. (Previously Amended): A wireless provisioning device, comprising:
2 a chassis;
3 at least one network card;
4 at least one wireless card;
5 at least one processor;
6 a LINUX operating system, the operating system operably
7 configured in the chassis to control the at least one network card, the at
8 least one wireless card and the at least one processor;
9 a packet-switched interface capable of receiving a multiplicity of
10 inbound framed packet-data to provide inbound packets and
11 transmitting a multiplicity of outbound framed packet-data comprising
12 outbound packets;
13 a channeling controller, coupled to the packet-switched interface
14 that channels the inbound packets based on the inbound address
15 information and that constructs the outbound packets and channels the
16 outbound packets with the outbound address information, the

17 channeling controller capable of being effectively connected to at least
18 one network via the operating system.

1 8. (Previously Amended): The wireless provisioning device of claim 1,
2 wherein the wireless provisioning device further comprises a second processor.

1 9. (Original): The wireless provisioning device of claim 1, wherein the
2 wireless provisioning device further comprises a memory device and a storage
3 device.



1 10. (Previously Amended): A system for allowing users to securely
2 access public domain area networks via mobile computing devices, comprising:
3 a plurality of wireless access points;
4 at least one wireless provisioning device for receiving,
5 authenticating, transmitting, and directing data over a plurality of
6 networks and capable of sustaining connectivity between the wireless
7 access points and the wireless provisioning device, the wireless
8 provisioning device comprising a chassis, at least one network card, at
9 least one wireless card, at least one processor, and at least one operating
10 system operably configured in the chassis and associated with at least
11 one of the plurality of wireless access points for transmitting and receiving
12 data between the wireless access point and a carrier structure and where
13 the wireless provisioning device is capable of accommodating multiple
14 connections back to the wireless access point without requiring rebooting
15 before a new roaming member can be added to the system;
16 a carrier structure communicably positioned between the wireless
17 provisioning device and the plurality of wireless access points for
18 transmitting and receiving data between the wireless provisioning device
19 and the plurality of wireless access points by means of a secure
20 connections; and

21 a security authentication protocol, initiated by the wireless
22 provisioning device, capable of authenticating traffic as it passes through
23 the carrier structure.

1 11. (Previously Amended): A system for allowing users to securely
2 access public domain area networks via mobile computing devices, comprising:

3 a plurality of wireless access points;

4 at least one wireless provisioning device for receiving,
5 authenticating, transmitting, and directing data over a plurality of
6 networks and capable of sustaining connectivity between the wireless
7 access points and the wireless provisioning device, the wireless
8 provisioning device comprising a chassis, at least one network card, at
9 least one wireless card, at least one processor, and at least one operating
10 system operably configured in the chassis and associated with at least
11 one of the plurality of wireless access points for transmitting and receiving
12 data between the wireless access point and a carrier structure and where
13 the wireless provisioning device is capable of accommodating multiple
14 connections back to the wireless access point without requiring rebooting
15 before a new roaming member can be added to the system, the wireless
16 provisioning device further comprises a directory services member
17 operatively connected to the operating system thereof, which is suitable
18 for maintaining a database directory that stores MAC addresses and
19 billing profiles for those in the system;

20 a carrier structure communicably positioned between the wireless
21 provisioning device and the plurality of wireless access points for
22 transmitting and receiving data between the wireless provisioning device
23 and the plurality of wireless access points by means of a secure
24 connections; and

25 a security authentication protocol, initiated by the wireless
26 provisioning device, capable of authenticating traffic as it passes through
27 the carrier structure.

1 12. (Original): The system of claim 11, wherein the wireless provisioning
2 device is capable of bridging.

1 13. (Original): The system of claim 12, wherein the wireless provisioning
2 device is capable of routing

3 14. (Canceled)

1 15. (Original): The system of claim 11, wherein the carrier structure is a
2 suitable antenna for providing bridging solutions that afford the user the ability to
3 place wireless equipment in a wide area network.

1 16. (Currently Amended): The system of claim ~~10~~ 11, wherein the
2 security authentication protocol is a radius authentication protocol.

1 17. (Currently Amended): The system of claim ~~10~~ 11, wherein the
2 wireless provisioning device provides proxy service.

1 18. (Currently Amended): The system of claim ~~10~~ 11, wherein the
2 wireless provisioning device provides firewall service.

3 19. (Currently Amended): A system, comprising:
4 a plurality of wireless access points;
5 at least one wireless provisioning device for receiving, transmitting,
6 and directing data over a plurality of networks and capable of sustaining
7 connectivity between the wireless access points and the wireless
8 provisioning device, the wireless provisioning device comprising a chassis,
9 at least one network card, at least one wireless card, at least one
10 processor, and at least one operating system operably configured in the

11 chassis and associated with at least one of the plurality of wireless access
12 points for transmitting and receiving data between the wireless access
13 point and a carrier structure and where the wireless provisioning device is
14 capable of accommodating multiple connections back to the wireless
15 access point without requiring rebooting before a new roaming member
16 can be added to the system, the wireless provisioning device further
17 comprises a directory services member operatively connected to the
18 operating system thereof, which is suitable for maintaining a database
19 directory that stores MAC addresses and billing profiles for those in the
20 system;

21 a carrier structure communicably positioned between the wireless
22 provisioning device and the plurality of wireless access points for
23 transmitting and receiving data between the wireless provisioning device
24 and the plurality of wireless access points by means of a secure shell telnet
25 connection; and

26 a security authentication protocol capable of authenticating
27 traffic as it passes through the carrier structure.

1 20. (Currently Amended): The system of claim 10 11, wherein the
2 system comprises at least one antenna.

3 a plurality of wireless access points;

4 at least one wireless provisioning device for receiving,
5 authenticating, transmitting, and directing data over a plurality of
6 networks and capable of sustaining connectivity between the wireless
7 access points and the wireless provisioning device, the wireless
8 provisioning device comprising a chassis, at least one network card, at
9 least one wireless card, at least one processor, and at least one
10 operating system operably configured in the chassis and associated
11 with at least one of the plurality of wireless access points for
12 transmitting and receiving data between the wireless access point

13 and a carrier structure and where the wireless provisioning device is
14 capable of accommodating multiple connections back to the wireless
15 access point without requiring rebooting before a new roaming
16 member can be added to the system, the wireless provisioning device
17 further comprises a directory services member operatively connected
18 to the operating system thereof, which is suitable for maintaining a
19 database directory that stores MAC addresses and billing profiles for
20 those in the system;

21 a carrier structure communicably positioned between the
22 wireless provisioning device and the plurality of wireless access points
23 for transmitting and receiving data between the wireless provisioning
24 device and the plurality of wireless access points by means of a secure
25 connections; and

26 a security authentication protocol, initiated by the wireless
27 provisioning device, capable of authenticating traffic as it passes
28 through the carrier structure.

1 21. (Previously Amended): A system for allowing users to securely
2 access public domain area networks via mobile computing devices, comprising:

3 a plurality of wireless access points;

4 at least one wireless provisioning device for receiving,
5 authenticating, transmitting, and directing data over a plurality of
6 networks and capable of sustaining connectivity between the wireless
7 access points and the wireless provisioning device, the wireless
8 provisioning device comprising a chassis, at least one network card, at
9 least one wireless card, at least one processor, and at least one operating
10 system operably configured in the chassis and associated with at least
11 one of the plurality of wireless access points for transmitting and receiving
12 data between the wireless access point and a carrier structure and where
13 the wireless provisioning device is capable of accommodating multiple

14 connections back to the wireless access point without requiring rebooting
15 before a new roaming member can be added to the system;

16 a 2.4 GHz antenna operatively coupled with the wireless
17 provisioning device;

18 a carrier structure communicably positioned between the wireless
19 provisioning device and the plurality of wireless access points for
20 transmitting and receiving data between the wireless provisioning device
21 and the plurality of wireless access points by means of a secure
22 connections; and

23 a security authentication protocol, initiated by the wireless
24 provisioning device, capable of authenticating traffic as it passes through
25 the carrier structure.

1 22. (Currently Amended): The system of claim 11, wherein the
2 operating system of the wireless provisioning device is an open source Unix
3 based system.

1 23. (Currently Amended): A system, comprising:
2 a plurality of wireless access points;
3 at least one wireless provisioning device for receiving, transmitting,
4 and directing data over a plurality of networks and capable of sustaining
5 connectivity between the wireless access points and the wireless
6 provisioning device, the wireless provisioning device comprising a chassis,
7 at least one network card, at least one wireless card, at least one
8 processor, and at least one LINUX operating system operably configured
9 in the chassis and associated with at least one of the plurality of wireless
10 access points for transmitting and receiving data between the wireless
11 access point and a carrier structure and where the wireless provisioning
12 device is capable of accommodating multiple connections back to the
13 wireless access point without requiring rebooting before a new roaming
14 member can be added to the system, the wireless provisioning device

15 further comprises a directory services member operatively connected
16 to the operating system thereof, which is suitable for maintaining a
17 database directory that stores MAC addresses and billing profiles for
18 those in the system;

19 a carrier structure communicably positioned between the wireless
20 provisioning device and the plurality of wireless access points for
21 transmitting and receiving data between the wireless provisioning device
22 and the plurality of wireless access points by means of a secure
23 connections; and

24 a security authentication protocol capable of authenticating
25 traffic as it passes through the carrier structure.


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1 24. (Previously Added): The wireless provisioning device of claim 1,
2 wherein the network card, the wireless card, the processor, the operating system,
3 the packet-switched interface, and the channel controller are operatively
4 disposed within the chassis of the wireless provisioning device.

1 25. (Previously Added): The wireless provision device of claim 24,
2 wherein the authenticator is operatively disposed within the chassis of the
3 wireless provisioning device.

1 26. (Previously Added): The wireless provisioning device of claim 1,
2 wherein bandwidth to individual user can be controlled by the wireless
3 provisioning device operating system.

1 27. (Previously Added): The wireless provisioning device of claim 1,
2 wherein the protocol type of an individual user can be controlled by the wireless
3 provisioning device operating system.

1 28. (Previously Added): The system of claim 20, wherein there is more
2 than one antenna and the user is capable of logging on and sustain
3 connectivity with the system while transitioning antennas.

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- 1 29. (Previously Added): The system of claim 20, wherein the user is
2 capable of logging onto and sustaining connectivity with the system while
3 transitioning access points.

In response to the above-referenced Office Action, please consider the
following remarks.
